



DEAD LOAD DEFLECTION DIAGRAM

- NOTES:
- ENCIRCLED NUMBERS INDICATE ANTICIPATED DEFLECTION DUE TO CONCRETE ONLY.
 - DEFLECTIONS ARE IN INCHES.

		MOMENT - foot-kips						REACTION - kips					
LOAD NAME	LOAD - k/ft	POSITIVE MOMENT				NEGATIVE MOMENT		REACTION					
		0.4 PT. END SPAN		0.5 PT. CENTER SPAN		PIER	PIER	ABUTMENT	ABUTMENT	PIER	PIER		
		INTERIOR	EXTERIOR	INTERIOR	EXTERIOR	INTERIOR	EXTERIOR	INTERIOR	EXTERIOR	INTERIOR	EXTERIOR		
DC1	0.74*	0.72*	209	196	249	231	470	438	21	20	72	67	
DC2	0.14	0.14	36	36	51	51	63	63	3	3	11	11	
DW	0.15	0.15	38	38	53	53	65	66	3	3	11	11	
LIVE LOAD + IMPACT HL-93	DISTRIBUTION FACTOR	MOMENT	MOMENT	745	806	792	935	549	623	75	66	111	98
		0.629	0.681										
		REACTION	REACTION	-	-	-	-	-	-	-	-	-	-
TOTAL				-	-	-	-	1147	1190	102	92	205	187

* LOAD VALUES DO NOT INCLUDE GIRDER WEIGHT.
 MOMENT AND REACTION VALUES DO INCLUDE GIRDER WEIGHT.
 MOMENTS AND REACTIONS SHOWN ARE UNFACTORED.

LATEST REVISION DATE	<i>Thomas E. Mc Donald</i> APPROVED BY BRIDGE ENGINEER		
		STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES ROLLED STEEL BEAM BRIDGES JUNE, 2010	
		BEAM DEFLECTIONS 200'-0 BRIDGE	RS40-063-10